

To assee Department of Environment and Conscion, Division of Water Pollution Control 401 Church Street, 6th Floor L & C Annex, Nashville, TN 37243 (615) 532-0625

CONCENTRATED ANIMAL FEEDING OPERATION (CAFO) STATE OPERATING PERMIT (SOP) NOTICE OF INTENT (NOI)

Type of permit you are requesting:	SOPCD0000 (designe	ed to discharge)	SOPC000	00 (no discharge)	Unk	nown, please advise
Application type:	☐ New Permit	Permit Modification				
	If this NOI is submitted for I	Permit Modificatio	n or Reissuance pro	vide the existing p	ermit tracking	number:
OPERATION IDENTIFICATION						
Operation Name: D+J	Farms					nacon
Operation Location/ 2440 (Physical Address: Jofan	2 deplocen Ro	pod			Latitude:	1 36 5072793
Physical Address: Folgay	ette TN 370	283 				J85.9688518
Name and distance to nearest receiv			Ook ace			
If any other State or Federal Water/	Wastewater Permits have b	een obtained for	this site, list tho	se permit number	s:	
Animal Type:	Swine	Dairy [_] Other		
Number of Animals: 95.000	Number of Barr	ıs: 4	Name	of Integrator:	naufrig	(Keystone)
Type of Animal Waste Managemen (check all that apply)	☐ Liquid				•	
Attach the NMP X NMP Attach		· · · · · · · · · · · · · · · · · · ·	e. covered tank, re Plan Attached	Attach a topo		☐ Map Attached
PERMITTEE IDENTIFICATION						
Official Contact (applicant):		Title or Position	·			
Deiner A Sini	valle .	Sense	3			
Dewey A. Swir Mailing Address:		City:		State:	Zip:	☐ Correspondence
587 Colleytour	Rd.	Lafayet	te	TH	<i>370</i> &3	☐ Invoice
Phone number(s): 615-666-8004		E-ngail:	11.090	2 - 0 -	L	
Optional Contact:		Title or Position	: 12 W 1.50	90im5 100	re, cur)	
Address:		City:	er kombande er	State:	Zip:	☐ Correspondence
Phone number(s):		E-mail:	**************************************			☐ Invoice
APPLICATION CERTIFICATION AND	SIGNATURE (must be sign	ed in accordance	with the require	ments of Rule 12	00-4-505)	
I certify under penalty of lav					·····	on or supervision
in accordance with a system						
submitted. Based on my inqu						
for gathering the information						
complete. I am aware that the	•	nalties for su	bmitting false	information,	including t	the possibility of
fine and imprisonment for kn	owing violations.	Q	gnature		D	ate
1	cin -	3	Siluture .	1 <		8-11-10
	erendle		Science	A. Dur	ndle o	2-11-10
STATE USE ONLY Received Date Review	ewer - C	FO / . (./ Тъ	E Aquatic Fauna	Ten	aking No
ROVE	tto °	Cookevil	le 1º	Manut 1 annia	1.8	50PC00046
RECEIVED Impa	ired Receiving Stream	Н	ligh Quality Water		NO	C Pate 23-10

continued

Permit Section

CNET4A(Rev2718)

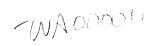
RDA 2366

SOPCOCO46



TENNESSEE DEPARTMENT OF AGRICULTURE

Water Resources Program



The following individual has submitted all required elements of an NMP/CNMP as required to obtain a CAFO permit. Their Nutrient Management Plan (or CNMP) has been reviewed and approved by this office.

Name of Owner/Operator: <u>Dewey Swindle</u>	
Operation Name: D + J Farms	
Address of Operation: 2440 Coleytown Roa	d Lafayette, TN 37083
Address of Operation: 2440 Coleytown Road Phone Number: (615) 666-8004 C	ounty: <u>Macon</u>
Date application was initiated:	Date approval forwarded to TDEC:
RECLIVED	AUG 3 1 2010
AUG 1 7 2009	AUG 3-1 ZUIU
Aud I ? 2003	
NMP/CNMP Approval Date:	Date approval received by TDEC
,	
THE APPROVAL SHALL NOT BE CONSTRUED AS CREATING	DECENTED
APRESUMPTION OF CORRECT	RECEIVED
AUG 3 1 2010 OPERATION OR AS WARRANTING	SEP 01 2010
THAT THE APPROVED FACILITIES WILL REACH THE DESIGNED GOALS	Permit Section
TDA Reviewer's Name: Sam Marshall	
0 1.11	A 1
TDA Reviewer's Signature: Sam Marshall	(lugust 31, 2010

Nutrient Management Plan Requirements

The following 9 items need to be submitted at the time the permit is applied for. Additional record-keeping items as outlined in the CAFO rules are also considered part of the nutrient management plan and must be kept on-site. More information on each item can be found in the CAFO rule (1200-4-5-.14).



1. Two maps: (1.) A map of your farm showing location of any animal barns/houses, compost bins, litter storage bins, manure lagoons/holding ponds, nearby roads, fields to which litter/manure will be applied, and non-application buffer areas around any bodies of water (streams, creeks, rivers, ponds, wells, sinkholes, springs, wetlands, etc.). A hand-drawn map is acceptable and even preferred. (2.) A topographic map of the farm (1:24000 scale, showing 1-mile radius from farm) showing property lines.



2. Nutrient budget - this is basically a balance sheet of all manure produced on the farm and all manure spread on the farm or removed from the farm. Application rates for all fields should be based on crop needs, realistic crop yield expectations, and actual manure analyses of nutrient content.



3. Soil test results for phosphorus and potassium for each application field. These must be taken at a minimum of every five years.



4. Results of manure analysis from within the past year. Annual manure testing is a requirement for all CAFOs. These results must be included with initial permit application if the farm is in operation. If the farm that is applying for the permit is new and not yet operating, then manure testing results need to be obtained once operation begins. At that point, the manure test results and revised application rates need to be submitted to TDA. Manure test results in subsequent years need to be kept as part of your record-keeping activities.



5. Results of the **Phosphorus Index** applied to each field that has a soil test P value of "High" or "Very High". In those situations, this tool will determine whether your application rates will be based on



6. Statement regarding method of dead animal disposal.



7. Closure Plan to be implemented in the event animal production ceases on the site.

These last two items are only required for medium-size CAFOs that manage liquid manure.



_8, Documentation of design of liquid waste handling system. This should include, but is not limited to: volume for solids accumulation, design treatment volume, total design volume, the approximate number of days of storage capacity, pumping and routing of wastes, and any solid separation process. Ideally, this documentation would consist of the pertinent engineering drawings with accompanying descriptive



The construction, modification, repair, or installation of any portion of a CAFO liquid waste handling system (such as earthen holding pond, treatment lagoon, pit, sump or other earthen storage/containment structure) after April 13, 2006 must be preceded by a thorough subsurface investigation. This investigation will include a detailed soils investigation with special attention to the water table depth and seepage potential.

In addition to the items above, the following form(s) must accompany your application:

Notice of Intent form must be submitted with all applications from Class II (Medium) CAFP ECEIVED

OR

EPA Forms 1 and 2B must be submitted with all applications from Class I (Large) CAFOs. SEP 0.1 2010

Closure Plan

In the event that broiler production at this location ceases, the following will be done within 360 days:

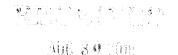
- Any litter/compost currently in storage at the time of closure will be removed and spread on the farm or spread elsewhere according to my Nutrient Management Plan.
- All litter in houses will be removed and spread on the farm or spread elsewhere according to my Nutrient Management Plan.
- All land application of litter will be done at application rates calculated in the Nutrient Management Plan.
- The most current litter analysis will be provided to anyone removing litter from the farm.
- Any dead birds in the houses at the time of closure will be composted.

Devey A. Swordle

Date: 8-23-10

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Addendum to Nutrient Management Plan:

By my signature below, I affirm that I have read, understand, and will comply with the following stipulations from Tennessee's CAFO rule (1200-4-5-.14) that apply to my CAFO operation.

- 1) All clean water (including rainfall) is diverted, as appropriate, from the production area.
- 2) All animals in confinement are prevented from coming in direct contact with waters of the state.
- 3) All chemicals and other contaminants handled on-site are not disposed of in any manure, litter, process wastewater, or storm water storage or treatment system unless specifically designed to treat such chemicals and other contaminants.
- 4) All sampling of soil and manure/litter is conducted according to protocols developed by UT Extension.
- 5) All records outlined in 1200-4-5-.14(16)d-f will be maintained and available on-site.
- 6) Any confinement buildings, waste/wastewater handling or treatment systems, lagoons, holding ponds, and any other agricultural waste containment/treatment structures constructed after April 13, 2006 are or will be located in accordance with NRCS Conservation Practice Standard 313.
- 7) Drystacks of manure or stockpiles of litter are always kept covered under roof or tarps.
- 8) An Annual Report will be written for my operation and submitted between January 1 and February 15 of each year. It will include all information required by rule [1200-4-5-.14(16)g].

Deury A. Suindle	8-4-09
Signature of CAFO Operator:	Date:

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1 Swindle

D & J Farms Nutrient Management Plan

Operation:

A four house broiler farm that produces birds presently for Keystone Foods. Capacity is 92,000 birds per house with six flocks per year maximum cycles. Litter production is based on 2.1 lbs per bird with annual production of 662 tons (assuming 6 cycles per year).

Litter Management:

Litter is de-caked between each flock and is stored in a litter storage shed awaiting land application or sales to third parties. Total clean out is performed no more than once a year and can stretch to every third year depending on conditions inside the house. Annual litter analysis is performed to monitor the N-P-K content of the natural resource.

Fertilizer Application:

Fertilizer is applied on the basis of annual soil sample for individual fields on four different farms that are tributary to this broiler operation. Phosphorous levels are monitored closely and if no "P" is called for none is applied to the fields. Commercial fertilizer will be purchased and applied on Nitrogen needs as well as Potassium. This is the simplest and cheapest way we have found to manage the P in the soils. If litter is spread on the farm it will be applied on the rate of 1.5 tons per acre and using the most recent P205 level on our litter that would be equivalent to 70lbs of phosphorous. We will not spread litter until the test calls for at least 60/lbs per acre of P as time and economics don't work for our operation to spread at the lower rate, thus we revert to the commercial application.

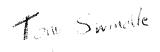
Table of So	il samnles	for the 4	tributary	farms:
Tuble of Sol	u sumutos	וואו וווכ ד	· ii ibuiui v	iui iiis.

	Mar-10								
Sample	Field	Acres	Crop	Soil PH	N Rate	Soil Test P	P205 Rate	Soil Test K	K20 Rate
jb1	J1-B	7	Fescue	6.7	60/120	M	30	L	60
j2	J2	3	Fescue	6.3	60/120	Н	0	М	30
if2	J1-2A	6	Fescue	6.9	60/165	M	30	L	60
if3	J1-3A	5	Fescue	7	60/165	Н	30	L	60
J5	J5 A	4	Fescue	6.4	60-120	M	30	V	0
j4	J5B-C	6	Fescue	6.4	60/120	Н	0	M	30
j3	J3 A-B	7	Fescue	6.3	0/90	M	30	L	60
,-	19	7	Fescue	6.5	0/90	Н	0	L	60
	J10	9	Fescue	6.5	0/90	H	0	L	60
	В4	5	Fescue	6.4	0/90	M	30	M	30
	85	4	Fescue	6.3	60/120	M	30	M	30
	В3	10	Fescue	6.3	60/120	L	60	Н	0
В6	B6-7-8	9	Fescue	6.3	60/120	V	0	M	30
S1	S1-S1 A	22	Fescue	6.3	30/120	Н	0	L	60
	52	9	Fescue	6.4	0/90	L	60	Н	0
T1 A	TA-1	16	Fescue	6.6	30/120	Н	0	Ł	60
T1 B	TB-1	4	Fescue	6.4	30/120	Н	• 0	Н	0
	T2	10	Fescue	6.7	30/120	Н	0	L	60

On a regular basis litter is sold off the farm to local tobacco producers. A nutrient profile is available upon request and records are keep as to whom the sales occur.

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Alsh 2.5 little



Results of Litte Analysis on a as is basis (lbs/ton) using average of two samples

Nutrient	Analysis	All 4 Houses
Nitrogen	30.6	20269
Phosphorus (as P2 05)	46.75	30948
Potassium (as K 2 0)	40.6	26877

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Form 1

NUTRIENT MANAGEMENT PLAN FOR THE POULTRY INDUSTRY

GENERAL INFORMATION									
Name of farm D43 43	uuma	County							
Farm owner's name Dewey	3. Swindle	Macov Telephone no. 415-644-3277							
Mailing address <u>9440 Coley</u> <u>Jayayette</u> TN 3	town Pd	CID BUD CID							
	Zip								
TYPE OF POULTRY FARM OPI	ERATION (check all that appl	y)							
Farm situation	Type of poultry								
≱ Existing	X Broilers								
□ New	□ Broiler breeder replacement	ts							
□ Expanding	☐ Broiler breeders								
	☐ Table egg type hens								
\wedge	☐ Table egg type replacement	S							
Farm owner signature Welley	dwindle 1	Date: 8-4-09							
Name of the person if the farm is least Dewey A. Swindle	ed and/or operated by someon	e other than the farm owner:							
Signature Devery A. Swort	ale	Date 8-4-09							
Assistance in completing this nutrient	management plan was provide	ed by: (check all that apply)							
University of Tennessee Ag	University of Tennessee Agricultural Extension Service								
☐ Private consultant									
□ Other									
(name)									

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Form 2

CALCULATING POULTRY LITTER PRODUCTION

The total tons of poultry litter produced on your farm can be estimated by using one or more of the following methods:

ers	Example	Your farm		
Total number of birds on farm per flock Number of flocks per year Total farm bird capacity (a x b) Pounds of litter produced per bird (see Table 5) Pounds of litter produced per year (c x d) Tons of litter per year (e ÷ 2000)	50,000 birds 6 flocks 300,000 birds 2.1 pounds 630,000 pounds 315 tons	92.000 6 552.000 3.4 1.324.800 662.4		
ts (Broiler Breeder or Table -egg -type)	Example	Your farm		
Total number of birds on farm per flock Number of flocks per year Total farm bird capacity (a x b) Pounds of litter produced per bird (see Table 5) Pounds of litter produced per year (c x d) Tons of litter per year (e ÷ 2000)	-			
(Broiler Breeder or Table-egg-type)	Example	Your farm		
Total number of birds on farm per flock Number of flocks per year Total farm bird capacity (a x b) Pounds of litter produced per bird (see Table 5) Pounds of litter produced per year (c x d)	700,000 pounds			
	Total number of birds on farm per flock Number of flocks per year Total farm bird capacity (a x b) Pounds of litter produced per bird (see Table 5) Pounds of litter produced per year (c x d) Tons of litter per year (e ÷ 2000) (Broiler Breeder or Table -egg -type) Total number of birds on farm per flock Number of flocks per year Total farm bird capacity (a x b) Pounds of litter produced per bird (see Table 5) Pounds of litter produced per year (c x d) Tons of litter per year (e ÷ 2000) (Broiler Breeder or Table-egg-type) Total number of birds on farm per flock Number of flocks per year Total farm bird capacity (a x b) Pounds of litter produced per bird (see Table 5) Pounds of flocks per year	Total number of birds on farm per flock Number of flocks per year Total farm bird capacity (a x b) Pounds of litter produced per bird (see Table 5) Pounds of litter per year (e ÷ 2000) Tons of litter per year (e ÷ 2000) Total number of birds on farm per flock Number of flocks per year Total farm bird capacity (a x b) Pounds of litter produced per bird (see Table 5) Pounds of litter produced per bird (see Table 5) Pounds of litter produced per year (c x d) Tons of litter per year (e ÷ 2000) Total number of birds on farm per flock Number of flocks per year Total farm bird capacity (a x b) Pounds of litter produced per year (c x d) Tons of litter per year (e ÷ 2000) Total number of birds on farm per flock Number of flocks per year Total number of birds on farm per flock Number of flocks per year Total farm bird capacity (a x b) Pounds of litter produced per bird (see Table 5) Pounds of litter produced per bird (see Table 5) Total farm bird capacity (a x b) Pounds of litter produced per bird (see Table 5) Total farm bird capacity (a x b) Pounds of litter produced per bird (see Table 5) Pounds of litter produced per bird (see Table 5) Total farm bird capacity (a x b) Pounds of litter produced per bird (see Table 5) Total farm bird capacity (a x b) Pounds of litter produced per bird (see Table 5) Total farm bird capacity (a x b) Pounds of litter produced per bird (see Table 5) Total farm bird capacity (a x b) Pounds of litter produced per year (c x d) Total farm bird capacity (a x b) Pounds of litter produced per bird (see Table 5) Total farm bird capacity (a x b) Pounds of litter produced per year (c x d)		

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Crop*	Acres	Application rate (tons/acre)	1	ons)
Februe Pasture	100 acres	1,5	15	0
Fescue Hay	80 acres	1.5	12	Δ
		in the American Production for the condition of the figure of the conditions of the		
	54			
*Information for this cha	rt will come from the wo	rksheet for each crop.		
	Total tons no nitrogen req	eeded to meet crop	270	
Poultry Litter Use		roduced on your farm	662	
Tons of litter used in own	are forming aparation			
Tons of fitter used in own	-Fertilizer		270	
	-Feed -Other			
Tons of litter removed from	om poultry farm by owne	г	270	
Tons of litter removed from	om poultry farm by other	s	392	
Total tons of litter used in	n farming operation and r	emoved from farm	662	
Manure Handlin (check all that app	_	Dead Bird D	isposal Met	thod
□ Litter stockpile	ectly to fields on the farmed and covered with plast		-	
Litter stockpile Litter used in a		☐ Covered in☐ Permitted I		ourial
Litter sold or g	iven away	□ Rendering		RECEIVED
□Litter removed	from the farm by the pour	☐ Other	specify	
☐ Litter used as a	from the farm by a third fuel in a heating system			SEP 01 2010
☐ Other				Permit Section

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specify

Note: It soil samples don't call for I'mo, litter in used on the form. More will be sold or either stored in liter sheds

Devery & Served

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AGRICULTURAL DIAGNOSTIC LABORATORY UNIVERSITY OF ARKANSAS - FAYETTEVILLE

***MANURE FOR FERTILIZER ANALYSIS (report for AGRI-429)

Name:	DEWEY SWINDLE		Received in lab:	3/29/2010
Address:	2440 COLEYTOWN RD.		Mailed:	4/02/2010
City:	LAFAYETTE		State,Zip:	TN 37083
County:	MACON (TN)		CK#:	2022
Lab. No.	M100445	M100446		
Sample No.		2		lakati <u>Pelebahan</u> dan <u>Pelebahan</u>
Animal type	broilers	broilers		
-age/lbs	7 wk/6.75 lbs	7 wk/6.75 lbs		
Bedding type	shavings/sawdust	none given		
Manure type	cake	dead bird com	poster	
Sample date	3/22/2010	3/22/2010		<u> </u>
Age of manure	1 yr	none given		
pH	8.7	8.7		
EC(umhos/cm)	13600	14100		
% H20	29.89	63.68		
	on	dry basis		
Total %N	4.11	4.21		
Total %P	1.63	2.49		
Total %K	3.91	4.61		
Total %Ca	3.44	5.04		
Total %Carbon	36.47	34.94		
NO3-N, mg/kg		was a second and the		
NH4-N, mg/kg				
	on "a	s-is" basis		
Total %N	2.88	1.53		
Total %P	1.14	0.90		
Total %K	2.74	1.68		
Total %Ca	2.41	1.83		
Total %Carbon	25.57	12.69		
NO3-N, mg/kg				The state of the s
NH4-N, mg/kg				
,,	lbs/	ton on "as-is" basis	· · · · · · · · · · · · · · · · · · ·	
N ·	57.6	30.6		
P205	52.2	41.3	· · · · · · · · · · · · · · · · · · ·	
K20	66.3	40.6		
Ca	48.2	36.6	·	
Total Carbon	511.4	253.8		
NO3-N				
NH4-N	The state of the s			
** ***********************************				Andrew Advances

^{***}all analyses performed on "as-is" basis/ "dry" basis is calculated from moisture content

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^{*}lbs/ton P2O5 = %Total P on "as-is" basis multiplied by 20*2.29

^{*}lbs/ton K2O = %Total K on "as-is" basis multiplied by 20*1.2

JN.VERSITY0fTENNESSEE

Extension

SOIL TEST REPORT

DEWEY SWINDLE 2440 COLEYTOWN ROAD

LAFAYETTE, TN 37083

Manager Soil, Plant and Pest Center 5201 Marchant Drive Nashville, TN 37211-5112 (615) 832-5850 soilplantpestcenter@utk.edu

Date Tested: 3/25/2010

Cou	inty: Macon									mber: 🖟		
		Me	ehlich 1	SOIL TES	i RESI	JETS an	d RAI	INGS*				
Samp	le ID B4	7		(F	ounds	Per Acre)			eres L		
Water pH	Buffer P Value Phosphorus	K Potassium	Ca Calcium	Mg Magnesium	Zn Zinc	Cu Copper	Fe Iron	Mn Manganese	B Boron	Na Sodium	S Sulfur	Nitrate (ppm)
6.4	24 M	101 M	1479 S	361 S								
	Organic Soluble Matter Salts											

RECOMMENDATIONS

B4

Fertilizer/Lime Application Rate and Timing

Grass-Clover Pasture b. Maintenance

N/P2O5/K2O

Nitrogen/Phosphate/Potash: 0-90 / 30 / 30 pounds per acre

Limestone:

Lime is not recommended at this time

The nitrogen should be omitted on pastures containing more than 30 percent clover in the spring, otherwise if clover is less than 30 percent of the pasture apply 30 pounds of nitrogen per acre between March 1-30. For fall stockpiling of fescue apply 60 pounds of N per acre August 15 to September 15 to all fescue-clover mixtures.

Apply recommended amounts of phosphate and potash in one application anytime during the year. If more than 4 tons of lime per acre are required, apply only 4 tons of lime per acre and re-test after one year.

Cou	inty: Maco	n		o passa		water		-	San San Paragraphy (1997)			OF PARTIES AND ADDRESS OF THE PARTY AND ADDRESS.	.ab Nu	mber:	3837	62
				M	ehlich	11	SOIL		200 C S C C C C C C C C C C C C C C C C C	llarSan	A PROPERTY OF THE PARTY OF THE	INGS*				
Samp	ile ID E	35						2 (f	eunds.	Per Acre						
Water pH	Buffer Value Phos	P phorus	K Potass	ium	Ca Calciu	ım	M _e Magne	g sium	Zn Zinc	Cu Copper	Fe Iron	Mn Manganese	B Boron	Na Sodium	S Sulfur	Nitrates (ppm)
6.3	64	Н	144	M	1626	\mathcal{S}	354	S								
	Matter	Soluble Salts PPM**								RE	CE	IVEL				

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SWINDLE - Page 1

*Ratings: Indicates relative availability of nutrients to plants. (See back of this form for detailed explanation.) **PPM = Parts per Million

If you have questions about these recommendations, contact your County Extension office.

B5

Fertilizer/Lime Application Rate and Timing

Cool Season Grass Pasture b. Maintenance

N/P,O, K,O

Nitrogen/Phosphate/Potash: 60-120 / 0 / 30 pounds per acre

Limestone:

Lime is not recommended at this time

Apply recommended amounts of phosphate and potash in one application anytime during the year. Apply 60 pounds of nitrogen per acre August 15 to September 15 and from March 1 to March 30. If additional growth is only needed during one season, apply nitrogen for that season only. If fescue is stockpiled in the fall, apply 60 pounds of N per acre August 15 to September 15.

County: Macon

Lab Number: 383763

В

Boron

Manganese

Sodium

Sulfur

Nitrates

(ppm)

Mention A SOIL TEST RESULTS and RATINGS

Zn

Zinc.

Sample ID

(Pounds Per Acre)

Cu

Copper

tron

pH	Value Pho	sphorus	Potassium	Calcium	Magnesium		
6.3	9	L	168 <i>H</i>	1339 S	294 S		
	Organic Matter %	Soluble Salts PPM**					

RECOMMENDATIONS

B3

Fertilizer/Lime Application Rate and Timing

Cool Season Grass Pasture b. Maintenance

N/P2O5/K20

Nitrogen/Phosphate/Potash: 60-120 / 60 / 0 pounds per acre

Limestone:

Lime is not recommended at this time

Apply recommended amounts of phosphate and potash in one application anytime during the year. Apply 60 pounds of nitrogen per acre August 15 to September 15 and from March 1 to March 30. If additional growth is only needed during one season, apply nitrogen for that season only. If fescue is stockpiled in the fall, apply 60 pounds of N per acre August 15 to September 15.

County: Macon

Lab Number:

383764

Menlich I SOIL TEST RESULTS and RATINGS

Sample ID

(Pounds Per Acre)

Water pH	Buffer Value	P Phosphore	ıs	K Potassi	ium	Ca Calcium	Mg Magnesium	Zn Zinc	Cu Copper	Fe Iron	Mn Manganese	B Boron	Na Sodium Su	S ulfur	Nitrates (ppm)
6.3		31 <i>F</i>	1	89	L	1358 S	250 S								

Organic Soluble Matter Salts PPM* %

RECOMMENDATIONS

S1

Fertilizer/Lime Application Rate and Timing

Grass/Legume Hay b. Maintenance

N/P2O5/K2O

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Nitrogen/Phosphate/Potash: 30-120 / 0 / 60 pounds per acre

SEP 01 2010

Limestone:

Lime is not recommended at this time

Permit Section

SWINDLE - Page 2

*Ratings: Indicates relative availability of nutrients to plants. (See back of this form for detailed explanation.) **PPM = Parts per Million

If you have questions about these recommendations, contact your County Extension office. Visit our web site at http://soilplantandpest.utk.edu for additional information. Apply 30 pounds of N per acre March 1-30 and again after first cutting if an accuronal cutting is expected. For fall stockpiling of fescue apply 60 pounds of N per acre August 15 to September 15 to all fescue clover mixtures.

Apply recommended amounts of phosphate and potash in one application anytime during the year. If more than 4 tons of lime per acre are required, apply only 4 tons of lime per acre and re-test after one year.

Lab Number: 383765 County: Macon Mehlichal SOIL TEST RESULTS and RATINGS (Pounds Per Acre) Sample ID S2 В Na S Nitrates Mn Fe Cu Zn K Buffer Water Sodium Sulfur (magg) Boron Zinc Copper Iron Manganese Value Phosphorus Magnesium Calcium Potassium pН S 1450 S 348 6.4 289 Soluble Organic Salts Matter PPM*

RECOMMENDATIONS

S2

Fertilizer/Lime Application Rate and Timing

Grass-Clover Pasture b. Maintenance

N/P2O5/K2O

Nitrogen/Phosphate/Potash: 0-90 / 0 / 0 pounds per acre

Lime is not recommended at this time Limestone:

The nitrogen should be omitted on pastures containing more than 30 percent clover in the spring, otherwise if clover is less than 30 percent of the pasture apply 30 pounds of nitrogen per acre between March 1-30. For fall stockpiling of fescue apply 60 pounds of N per acre August 15 to September 15 to all fescue-clover mixtures.

Apply recommended amounts of phosphate and potash in one application anytime during the year. If more than 4 tons of lime per acre are required, apply only 4 tons of lime per acre and re-test after one year.

383766 Lab Number: County: Macon Mehlich I SOIL TEST RESULTS and RATINGS (Pounds Per Acre) Sample ID D4 В Na S Nitrates Mn Zn Cu Fρ Mq Ca Water Ruffer Sodium Sulfur (ppm) Copper Iron Manganese Boron Zinc Calcium Magnesium **Phosphorus** Potassium pН Value S 1316 S 237 6.1 10 L 241 Н Soluble Organic Salts Matter PPM** %

RECOMMENDATIONS

D4

Fertilizer/Lime Application Rate and Timing

Cool Season Grass Pasture b. Maintenance

N/P2O5/K2O

Nitrogen/Phosphate/Potash: 60-120 / 60 / 0 pounds per acre

Limestone:

Lime is not recommended at this time

Apply recommended amounts of phosphate and potash in one application anytime during the year. Apply 60 pounds of nitrogen per acre August 15 to September 15 and from March 1 to March 30. If additional growth is only needed If fascure is stockpiled in the fall, apply 60 pounds of N per during one season, apply nitrogen for that season only acre August 15 to September 15.

County: Macon

SEP 0 1 2010

Lab Number: 383767

Permit Section

SWINDLE - Page 3

*Ratings: Indicates relative availability of nutrients to plants. (See back of this form for detailed explanation.) **PPM = Parts per Million

If you have questions about these recommendations, contact your County Extension office. Visit our web site at http://soilplantandpest.utk.edu for additional information.

Alba Yang

Meh. In SOIL TEST RESULTS and RATIF (Pounds Per Acre D6 Sample ID S **Nitrates** Fe Mn Cu Zn Ca Mg Sulfur (ppm) Sodium Κ Manganese Boron Iron Copper Buffer Water Magnesium Zinc Calcium Potassium **Phosphorus** Value pΗ 319 1224 S 104 Н 6.3 37 Soluble Organic Matter Salts

RECOMMENDATIONS

D6

Fertilizer/Lime Application Rate and Timing

Grass-Clover Pasture b. Maintenance

N / P2O. / K2O

Nitrogen/Phosphate/Potash: 0-90 / 0 / 30 pounds per acre

Lime is not recommended at this time

The nitrogen should be omitted on pastures containing more than 30 percent clover in the spring, otherwise if clover is less than 30 percent of the pasture apply 30 pounds of nitrogen per acre between March 1-30. For fall stockpiling of fescue apply 60 pounds of N per acre August 15 to September 15 to all fescue-clover mixtures.

Apply recommended amounts of phosphate and potash in one application anytime during the year. If more than 4 tons of lime per acre are required, apply only 4 tons of lime per acre and re-test after one year. Lab Number: 383768

County: Macon Mehlich 1 SOIL TEST RESULTS and RATINGS

(Pounds Per Acre)

Sample ID TA1 **Nitrates** S Na Fe Cu 7n Mg Sodium Sulfur (ppm) Ca K Boron iron Copper Water Buffer Magnesium Zinc Calcium Potassium **Phosphorus** Value pН S 378 S 1596 31 Н 6.6 SEP 01 2010

Soluble Organic Matter Salts

Permit Section

RECOMMENDATIONS

TA1

Fertilizer/Lime Application Rate and Timing

Grass/Legume Hay b. Maintenance

PPM*

N/P,O,/K,O

Nitrogen/Phosphate/Potash: 30-120 / 0 / 60 pounds per acre

Lime is not recommended at this time

Apply 30 pounds of N per acre March 1-30 and again after first cutting if an additional cutting is expected. For fall stockpiling of fescue apply 60 pounds of N per acre August 15 to September 15 to all fescue clover mixtures.

Apply recommended amounts of phosphate and potash in one application anytime during the year. If more than 4 tons of lime per acre are required, apply only 4 tons of lime per acre and re-test after one year. Lab Number: 383769

County: Macon

Mehlich 1 SOIL TEST RESULTS and RATINGS: (Pounds Per Acre)

T1B Sample ID

Nitrates s Na В Cu Mn Mg 7n Ca Sodium Sulfur (ppm) Manganese Boron Buffer Iron Water Copper Magnesium Zinc Calcium Potassium Phosphorus pΗ Value S 1265 S 344 Η 171 36 Н 6.4

SWINDLE - Page 4

*Ratings: Indicates relative availability of nutrients to plants. (See back of this form for detailed explanation.)

**PPM = Parts per Million If you have questions about these recommendations, contact your County Extension office.

Organic Soluble Matter Salts PPM**

RECOMMENDATIONS

T1B

Fertilizer/Lime Application Rate and Timing

Grass/Legume Hay b. Maintenance

N/P2O5/K20

Nitrogen/Phosphate/Potash: 30-120 / 0 / 0 pounds per acre

Limestone:

Lime is not recommended at this time

Apply 30 pounds of N per acre March 1-30 and again after first cutting if an additional cutting is expected. For fall stockpiling of fescue apply 60 pounds of N per acre August 15 to September 15 to all fescue clover mixtures.

Apply recommended amounts of phosphate and potash in one application anytime during the year. If more than 4 tons of lime per acre are required, apply only 4 tons of lime per acre and re-test after one year.

County: Macon Lab Number: 383770 Mehlich 1 SOIL TEST RESULTS and RATINGS

Water Buffer Ca Mg Zn Cu Fe Mn В Na 2 **Nitrates** Phosphorus Potassium pН Value Calcium Magnesium Zinc Copper Iron Manganese Boron Sodium Sulfur (maga) 6.6 46 Н 72 1973 S

(Pounds Per Acre

Organic Soluble Matter Salts PPM** %

RECOMMENDATIONS

T2

Sample ID

Sample ID

Fertilizer/Lime Application Rate and Timing

Grass/Legume Hay b. Maintenance

N/P,O,/K,O

Nitrogen/Phosphate/Potash: 30-120 / 0 / 60 pounds per acre

Lime is not recommended at this time

369

S

Apply 30 pounds of N per acre March 1-30 and again after first cutting if an additional cutting is expected. For fall stockpiling of fescue apply 60 pounds of N per acre August 15 to September 15 to all fescue clover mixtures.

Apply recommended amounts of phosphate and potash in one application anytime during the year. If more than 4 tons of lime per acre are required, apply only 4 tons of lime per acre and re-test after one year.

County: Macon Lab Number: 383771 Mehlich 1 SOIL TEST RESULTS and RATINGS

S

310

(Pounds Per Acre)

ĸ Ca Water Buffer Mg Zn Cu Fe Mn R Na S **Nitrates Phosphorus** pΗ Potassium Calcium Magnesium Zinc Copper Iron Manganese Boron Sodium Sulfur (maga) 6.7

21 M 73 1825 S Organic Soluble Matter Salts PPM*

JB1

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Permit Section

SWINDLE - Page 5

*Ratings: Indicates relative availability of nutrients to plants. (See back of this form for detailed explanation.) **PPM = Parts per Million

If you have questions about these recommendations, contact your County Extension office. Visit our web site at http://soilplantandpest.utk.edu for additional information.

JB1

Fertilizer/Lime Application Rate and Timing

Cool Season Grass Pasture b. Maintenance

N/P2O5/K2O

Nitrogen/Phosphate/Potash: 60-120 / 30 / 60 pounds per acre

Lime is not recommended at this time

Apply recommended amounts of phosphate and potash in one application anytime during the year. Apply 60 pounds of nitrogen per acre August 15 to September 15 and from March 1 to March 30. If additional growth is only needed during one season, apply nitrogen for that season only. If fescue is stockpiled in the fall, apply 60 pounds of N per acre August 15 to September 15. Lab Number: 383772

County: Macon

Boron

Manganese

County: Macon			Falling amaged	TINGS*
	Mehlich	A ROIL IESUM	ESULTS and RA	
		(Pour	nds Per Acre)	
Sample ID JF2			1155	
	Economic Services		a cu Fe	Mn B

Mg Ca K Magnesium Water Calcium **Potassium Phosphorus** Value pН S 307 2364 S 42 26 6.9 Soluble Organic Salts Matter PPM*

RECOMMENDATIONS.

Zn

Zinc

Copper

iron

JF2

Fertilizer/Lime Application Rate and Timing

Grass Hay b. Maintenance

N/P2O5/K2O

Nitrogen/Phosphate/Potash: 60-165 / 30 / 60 pounds per acre

Lime is not recommended at this time

Apply recommended amounts of phosphate and potash in one application anytime during the year. Apply 60 pounds of nitrogen per acre March 1-30. Where a second cutting is expected, apply an additional 45 pounds 0f N per acre immediately after the first cutting. If fescue is stockpiled in the fall, apply 60 pounds of N per acre August 15 to September 15.

If urea is the nitrogen source, especially for fall topdressings, some loss of nitrogen may occur if applied to moist soils followed by three or more days of rapidly drying conditions without rainfall. If more than 4 tons of lime per acre are required, apply only 4 tons of lime per acre and re-test after one year.

County: Macon

Lab Number:

383773

Nitrates

(maga)

S

Sulfur

Na

Sodium

Mehlich 1 SOIL TEST RESULTS and RATINGS*

(Pounds Per Acre) JF3 Sample ID

Ca ĸ Buffer Magnesium Water Calcium Potassium Phosphorus Value pН S 300 1882 S 1 39 37 Н 7.0 Soluble Organic Salts Matter

PPM*

Cu Copper

Fe Iron Manganese

Boron

Na Sodium

Nitrates (magg) Sulfur

Zn

Zinc

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Permit Section

SWINDLE - Page 6

*Ratings: Indicates relative availability of nutrients to plants. (See back of this form for detailed explanation.) **PPM = Parts per Million

If you have questions about these recommendations, contact your County Extension office.

JF3

Fertilizer/Lime Application Rate and Timing

Grass Hay b. Maintenance

N/P2O4/K2O

Nitrogen/Phosphate/Potash: 60-165 / 0 / 60 pounds per acre

Limestone:

Lime is not recommended at this time

Apply recommended amounts of phosphate and potash in one application anytime during the year. Apply 60 pounds of nitrogen per acre March 1-30. Where a second cutting is expected, apply an additional 45 pounds 0f N per acre immediately after the first cutting. If fescue is stockpiled in the fall, apply 60 pounds of N per acre August 15 to September 15.

If urea is the nitrogen source, especially for fall topdressings, some loss of nitrogen may occur if applied to moist soils followed by three or more days of rapidly drying conditions without rainfall. If more than 4 tons of lime per acre are required, apply only 4 tons of lime per acre and re-test after one year. Lab Number: 383774

County: Macon Mehlich 1 SOIL TEST RESULTS and RATINGS* (Pounds Per Acre)

Sample ID Nitrates S Na 8 Zπ Ca Mg K Sulfur (ppm) Boron Sodium Water Buffer Manganese iron Magnesium Zinc Copper Calcium **Phosphorus** Potassium Value

pН 1596 S 266 S 47 6.5 47

> Organic Soluble Salts Matter PPM* %

RECOMMENDATIONS

J10

Fertilizer/Lime Application Rate and Timing

Grass-Clover Pasture b. Maintenance

N/P2O4/K2O

Nitrogen/Phosphate/Potash: 0-90 / 0 / 60 pounds per acre

Lime is not recommended at this time

The nitrogen should be omitted on pastures containing more than 30 percent clover in the spring, otherwise if clover is less than 30 percent of the pasture apply 30 pounds of nitrogen per acre between March 1-30. For fall stockpiling of fescue apply 60 pounds of N per acre August 15 to September 15 to all fescue-clover mixtures.

Apply recommended amounts of phosphate and potash in one application anytime during the year. If more than 4 tons of lime per acre are required, apply only 4 tons of lime per acre and re-test after one year. Lab Number: 383775

County: Macon Mehlich 1 SOIL TEST RESULTS and RATINGS

(Pounds Per Acre) J9: Sample ID Cu Fe Zπ

S **Nitrates** Na В Mg Ca K (ppm) Sulfur Sodium Buffer Manganese Boron Water Zinc Copper Iron Magnesium Calcium Potassium **Phosphorus** Value pΗ

S 1622 S 237 88 15 6.5

> Soluble Organic Salts PPM*

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SEP 01 2010

Permit Section

SWINDLE - Page 7

*Ratings: Indicates relative availability of nutrients to plants. (See back of this form for detailed explanation.) **PPM = Parts per Million

If you have questions about these recommendations, contact your County Extension office.

Fertilizer/Lime Application Rate and Timing

Grass-Clover Pasture b. Maintenance

N/P,O,/K,O

Nitrogen/Phosphate/Potash: 0-90 / 60 / 60 pounds per acre

Limestone:

Lime is not recommended at this time

The nitrogen should be omitted on pastures containing more than 30 percent clover in the spring, otherwise if clover is less than 30 percent of the pasture apply 30 pounds of nitrogen per acre between March 1-30. For fall stockpiling of fescue apply 60 pounds of N per acre August 15 to September 15 to all fescue-clover mixtures.

Apply recommended amounts of phosphate and potash in one application anytime during the year. If more than 4 tons of lime per acre are required, apply only 4 tons of lime per acre and re-test after one year.

Lab Number: County: Macon Menlich: (ISOIL TEST/RESULTS and RATINGS) (Pounds Per Acre) Sample ID S Nitrates В Fe Cu Mn 70 Са Mg ĸ Sulfur (maa) Sodium Buffer Iron Manganese Boron Water Magnesium Zinc Copper Calcium Potassium **Phosphorus** Value pH 312 S S 1569 136 33 H 6.3 Soluble Organic Matter Salts

RECOMMENDATIONS

J2

Fertilizer/Lime Application Rate and Timing

Cool Season Grass Pasture b. Maintenance

N/P205/K20

Nitrogen/Phosphate/Potash: 60-120 / 0 / 30 pounds per acre

Limestone:

PPM*

PPM*

Limestone:

Lime is not recommended at this time

Apply recommended amounts of phosphate and potash in one application anytime during the year. Apply 60 pounds of nitrogen per acre August 15 to September 15 and from March 1 to March 30. If additional growth is only needed during one season, apply nitrogen for that season only. If fescue is stockpiled in the fall, apply 60 pounds of N per acre August 15 to September 15.

Lab Number: 383777 County: Macon Mehlich 1 SOIL TEST RESULTS and RATINGS (Pounds Per Acre) **J**5 Sample ID Nitrates Na S 8 Cu Fe Min 7n Ca Mg K P Sodium Sulfur (mgg) Boron Buffer Manganese Water Iron Magnesium Zinc Copper Calcium Potassium **Phosphorus** Value pΗ S 1660 S 301 M 321 23 6.4 Organic Soluble Salts Matter

RECOMMENDATIONS

J5

Fertilizer/Lime Application Rate and Timing

Cool Season Grass Pasture b. Maintenance

N / P2O5/ K2O

SEP 01 2010

Nitrogen/Phosphate/Potash: 60-120 / 30 / 0 pounds per acre

Lime is not recommended at this time

Permit Section

SWINDLE - Page 8

*Ratings: Indicates relative availability of nutrients to plants. (See back of this form for detailed explanation.) **PPM = Parts per Million

if you have questions about these recommendations, contact your County Extension office. Visit our web site at http://soilplantandpest.utk.edu for additional information.

Apply recommended amounts of phosphate and potash in one application anytime during the year. Apply 60 pounds of nitrogen per acre August 15 September 15 and from March 1 to March If additional growth is only needed during one season, apply nitrogen for that season only. If fescue is stockpiled in the fall, apply 60 pounds of N per acre August 15 to September 15.

County: Macon 383778 Lab Number:

Mehlich 1 SOIL TEST RESULTS and RATINGS

(Pounds Per Acre)

K Ca Water Buffer Mg Zn Cu Min B Na S Mitrates Phosphorus рH Value Potassium Calcium Magnesium Zinc Copper Iron Manganese Sodium Boron Sulfur (ppm) 6.4 33 H

156 M 1848 S 330 Organic Soluble Matter Salts

Sample ID

%

RECOMMENDATIONS

Fertilizer/Lime Application Rate and Timing J4

Cool Season Grass Pasture b. Maintenance

N/P,O,/K,O Nitrogen/Phosphate/Potash: 60-120 / 0 / 30 pounds per acre

Limestone: Lime is not recommended at this time

Apply recommended amounts of phosphate and potash in one application anytime during the year. Apply 60 pounds of nitrogen per acre August 15 to September 15 and from March 1 to March 30. If additional growth is only needed during one season, apply nitrogen for that season only. If fescue is stockpiled in the fall, apply 60 pounds of N per acre August 15 to September 15.

County: Macon Lab Number:

Mehlich 1 SOIL TEST RESULTS and RATINGS (Pounds Per Acre) Sample ID

К Ca Water Ma Buffer Zn Cu Fe Min ₿ Na S Nitrates **Phosphorus** ρH Value Potassium Calcium Magnesium Zinc Copper Iron Manganese Boron Sodium Sulfur

6.3 22 56 M 1382 S 208

J3

County: Macon

Organic Soluble Matter Salts DDM**

RECOMMENDATIONS

Fertilizer/Lime Application Rate and Timing J3 -

Grass-Clover Pasture b. Maintenance

N/P2O5/K2O

Nitrogen/Phosphate/Potash: 0-90 / 30 / 60 pounds per acre

Limestone: Lime is not recommended at this time

The nitrogen should be omitted on pastures containing more than 30 percent clover in the spring, otherwise if clover is less than 30 percent of the pasture apply 30 pounds of nitrogen per acre between March 1-30. For fall stockpiling of fescue apply 60 pounds of N per acre August 15 to September 15 to all fescue-clover mixtures.

Apply recommended amounts of phosphate and potash in one application anytime during the year. If more than 4 tons of lime per acre are required, apply only 4 tons of lime per acre and re-test after one year.

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Lab Number: 383780

SEP 01 2010

SWINDLE - Page 9

383779

(ppm)

**PPM = Parts per Million

If you have questions about these recommendations, contact your County Extension office.

		Me	: 1 hر	SOIL TEST (P	RESU	ILTS and Per Acre)	KAI	5				
Samp Water	Buffer P	K Potassium	Ca Calcium	Mg Magnesium	Zn Zinc	Cu Copper	Fe Iron	Mn Manganese	B Boron	Na Sodium	S Solfur	Nitrates (ppm)
рН 6.3	Value Phosphorus	145 M	1747 S	340 S								
	Organic Soluble Matter Saits 9/ PPM**											

Fertilizer/Lime Application Rate and Timing

Cool Season Grass Pasture b. Maintenance

N/P2O5/K2O

Nitrogen/Phosphate/Potash: 60-120 / 0 / 30 pounds per acre

Lime is not recommended at this time

Apply recommended amounts of phosphate and potash in one application anytime during the year. Apply 60 pounds of nitrogen per acre August 15 to September 15 and from March 1 to March 30. If additional growth is only needed during one season, apply nitrogen for that season only. If fescue is stockpiled in the fall, apply 60 pounds of N per acre August 15 to September 15.

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Permit Section

SWINDLE - Page 10

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THE UNIVERSITY of TENNESSE



Extension

SOIL TEST REPORT

DEWEY SWINDLE 2440 COLEYTOWN ROAD

LAFAYETTE, TN 37083

Deborah K. Joines Manager Soil, Plant and Pest Center 5201 Marchant Drive Nashville, TN 37211-5112 (615) 832-5850 soilplantpestcenter@utk.edu

Date Tested: 3/18/2009

County: Macon

Mehlich 1 SOIL TEST RESULTS and RATINGS*

Ζn

Zinc

Sample ID

Ruffer

Value

Water

рΗ

D₆

Phosphorus

(Pounds Per Acre)

Cu

Copper

Fe

Iron

Mn Manganese

В Na Boron Sodium

Lab Number:

Nitrates (ppm)

361085

Potassium 5.9 7.4 48 364 1216 S 298

> Organic Soluble Matter Salts %

> > RECOMMENDATIONS

D6

Fertilizer/Lime Application Rate and Timing

Grass-Clover Pasture b. Maintenance

N/P2O5/K2O

Nitrogen/Phosphate/Potash: 0-90 / 0 / 0 pounds per acre

Limestone:

2 tons per acre

Ca

Calcium

Mg

Magnesium

The nitrogen should be omitted on pastures containing more than 30 percent clover in the spring, otherwise if clover is less than 30 percent of the pasture apply 30 pounds of nitrogen per acre between March 1-30. For fall stockpiling of fescue apply 60 pounds of N per acre August 15 to September 15 to all fescue-clover mixtures.

Apply recommended amounts of phosphate and potash in one application anytime during the year. If more than 4 tons of lime per acre are required, apply only 4 tons of lime per acre and re-test after one year.

County: Macon

Buffer

Value

Matter

%

Lab Number:

361086

Mehlich 1 SOIL TEST RESULTS and RATINGS*

Sample ID

D5

Phosphorus

Mg

Zn Cu Zinc

(Pounds Per Acre)

Fe Iron

В Mn

Nitrates Na Sodium (ppm)

5.5 7.4 Μ 170

Potassium

904

Ca

Calcium

S

Magnesium

Copper

Manganese Boron

Organic

Water

нα

22 Soluble

Saits

PPM**

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Permit Section

SWINDLE - Page 1

*Ratings: Indicates relative availability of nutrients to plants. (See back of this form for detailed explanation.) **PPM = Parts per Million

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D5

Fertilizer/Lime Application Rate and Timing

Grass-Clover Pasture b. Maintenance

N/P2O5/K2O

Nitrogen/Phosphate/Potash: 0-90 / 30 / 0 pounds per acre

Limestone:

2.5 tons per acre

The nitrogen should be omitted on pastures containing more than 30 percent clover in the spring, otherwise if clover is less than 30 percent of the pasture apply 30 pounds of nitrogen per acre between March 1-30. For fall stockpiling of fescue apply 60 pounds of N per acre August 15 to September 15 to all fescue-clover mixtures.

Apply recommended amounts of phosphate and potash in one application anytime during the year. If more than 4 tons of lime per acre are required, apply only 4 tons of lime per acre and re-test after one year.

County: Macon 361087 Lab Number: Mehlich 1 SOIL TEST RESULTS and RATINGS* (Pounds Per Acre) Sample ID D3 Ca ĸ Cu Fe В Μa Zn Mn Na Nitrates Water Buffer Phosphorus Potassium pН Value Calcium Magnesium Zinc Copper iron Manganese Boron Sodium (ppm) 6.2 12 1 155 M 1553 S 266 S Organic Soluble

RECOMMENDATIONS

D3

Fertilizer/Lime Application Rate and Timing

Grass-Clover Pasture b. Maintenance

N/P2O5/K2O

Nitrogen/Phosphate/Potash: 0-90 / 60 / 30 pounds per acre

Limestone:

Matter

Salts

Lime is not recommended at this time

The nitrogen should be omitted on pastures containing more than 30 percent clover in the spring, otherwise if clover is less than 30 percent of the pasture apply 30 pounds of nitrogen per acre between March 1-30. For fall stockpiling of fescue apply 60 pounds of N per acre August 15 to September 15 to all fescue-clover mixtures.

Apply recommended amounts of phosphate and potash in one application anytime during the year. If more than 4 tons of lime per acre are required, apply only 4 tons of lime per acre and re-test after one year.

County: Macon Lab Number:

Mehlich 1 SOIL TEST RESULTS and RATINGS*

Sample ID J5 (Pounds Per Acre)

Ca Ma Zn Cu Fe Mn В Na Nitrates Water Buffer **Phosphorus** Potassium Calcium Magneslum Zinc Copper Iron Manganese Boron Sodium (ppm) рΗ Value

6.2 84 *H* 468 *V* 2218 S 398 S

Organic Soluble
Matter Salts
% PPM**

RECOMMENDATIONS

J5

Fertilizer/Lime Application Rate and Timing

Grass-Clover Pasture b. Maintenance

N / P2O5/ K2O

Nitrogen/Phosphate/Potash: 0-90 / 0 / 0 pounds per acre

SWINDLE - Page 2

361088

*Ratings: Indicates relative availability of nutrients to plants. (See back of this form for detailed explanation.)

**PPM = Parts per Million

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Visit our web site at http://soilplantandpest.utk.edu for additional information.

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Permit Section

Limestone:

Lime is not recommended at this time

The nitrogen should be omitted on pastures containing more than 30 percent clover in the spring, otherwise if clover is less than 30 percent of the pasture apply 30 pounds of nitrogen per acre between March 1-30. For fall stockpiling of fescue apply 60 pounds of N per acre August 15 to September 15 to all fescue-clover mixtures.

Apply recommended amounts of phosphate and potash in one application anytime during the year. If more than 4 tons of lime per acre are required, apply only 4 tons of lime per acre and re-test after one year.

County: Macon Lab Number: 361089 Mehlich 1 SOIL TEST RESULTS and RATINGS* (Pounds Per Acre) Sample ID J10 ĸ Ca Cu В Na Nitrates Water Buffer Ma Zn Fe Mn **Phosphorus** Potassium Calcium Magnesium 7inc Copper Iron Manganese Boron Sodium (ppm) ρH Value 6.2 99 1852 S 326 S Organic Soluble Matter Salts

RECOMMENDATIONS

J10

Fertilizer/Lime Application Rate and Timing

Grass-Clover Pasture b. Maintenance

N/P2O5/K2O

Nitrogen/Phosphate/Potash: 0-90 / 0 / 30 pounds per acre

Limestone:

Lime is not recommended at this time

The nitrogen should be omitted on pastures containing more than 30 percent clover in the spring, otherwise if clover is less than 30 percent of the pasture apply 30 pounds of nitrogen per acre between March 1-30. For fall stockpiling of fescue apply 60 pounds of N per acre August 15 to September 15 to all fescue-clover mixtures.

Apply recommended amounts of phosphate and potash in one application anytime during the year. If more than 4 tons of lime per acre are required, apply only 4 tons of lime per acre and re-test after one year.

County: Macon Mehlich 1 SOIL TEST RESULTS and RATINGS*

(Pounds Per Acre)

Fe

Iron

Sample ID J1 Buffer κ Ca Μa Ζn Cu Water Copper

Phosphorus Potassium Calcium Magnesium Zinc Value 6.0 7 4 35 Н

102 Μ 1757 S 253

Organic Soluble Matter Salts PPM*

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Na

Sodium

361090

Nitrates

(ppm)

Lab Number:

В

Boron

Mn

Manganese

SEP 01 2010

RECOMMENDATIONS

Fertilizer/Lime Application Rate and Timing

Permit Section

Grass-Clover Pasture b. Maintenance

N / P2O5/ K2O

Nitrogen/Phosphate/Potash: 0-90 / 0 / 30 pounds per acre

Limestone:

J1

2 tons per acre

The nitrogen should be omitted on pastures containing more than 30 percent clover in the spring, otherwise if clover is less than 30 percent of the pasture apply 30 pounds of nitrogen per acre between March 1-30. For fall stockpiling of fescue apply 60 pounds of N per acre August 15 to September 15 to all fescue-clover mixtures.

SWINDLE - Page 3

*Ratings: Indicates relative availability of nutrients to plants. (See back of this form for detailed explanation.) **PPM = Parts per Million

If you have questions about these recommendations, contact your County Extension office.

Apply recommended amounts of phosphate and potash in one application anytime during the year. If more than 4 tons of lime per acre are required, apply only 4 tons of lime per acre and re-test after one year.

Mehlich 1 SOIL TEST RESULTS and RATINGS*

(Pounds Per Acre)

В Κ Ca Zn Cu Fe Mo Na Nitrates Mg Water Buffer **Phosphorus** Copper Sodium (ppm) Calcium Zinc Iron Manganese Boron рΗ Value

5.7 7.3 29 M 297 H 1545 S 196 S

Organic Soluble
Matter Salts
% PPM**

J9

County: Macon

Sample ID

RECOMMENDATIONS

J9

Fertilizer/Lime Application Rate and Timing

Grass-Clover Pasture b. Maintenance

N/P2O5/K2O

Nitrogen/Phosphate/Potash: 0-90 / 30 / 0 pounds per acre

Limestone:

J3

PPM**

2.5 tons per acre

The nitrogen should be omitted on pastures containing more than 30 percent clover in the spring, otherwise if clover is less than 30 percent of the pasture apply 30 pounds of nitrogen per acre between March 1-30. For fall stockpiling of fescue apply 60 pounds of N per acre August 15 to September 15 to all fescue-clover mixtures.

Apply recommended amounts of phosphate and potash in one application anytime during the year. If more than 4 tons of lime per acre are required, apply only 4 tons of lime per acre and re-test after one year.

County: Macon Lab Number:

Mehlich 1 SOIL TEST RESULTS and RATINGS*

(Pounds Per Acre)

Water Buffer P K Ca Mg Zn Cu Fe Mn B Na Nitrates

pH Value Phosphorus Potassium Calcium Magnesium Zinc Copper Iron Manganese Boron Sodium (ppm)

5.5 7.3 45 H 322 V 1226 S 232 S

Organic Soluble
Matter Salts

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361091

Lab Number:

SEP 01 2010

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RECOMMENDATIONS

Fertilizer/Lime Application Rate and Timing

J3

Sample ID

rerunzentinie Application Rate and Tinii

Grass-Clover Pasture b. Maintenance

N/P2O5/K2O

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County: Macon

Lab Number:

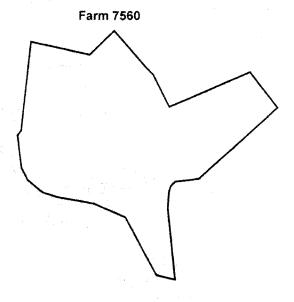
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SWINDLE - Page 4

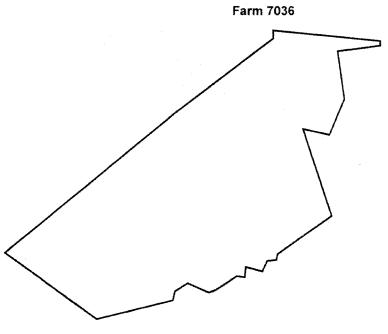
*Ratings: Indicates relative availability of nutrients to plants. (See back of this form for detailed explanation.)

**PPM = Parts per Million

If you have questions about these recommendations, contact your County Extension office.



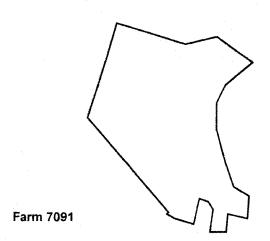
Dewey Swindle Poultry Operation

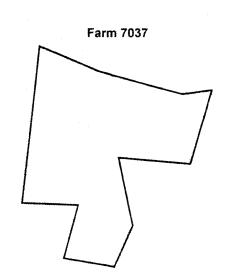


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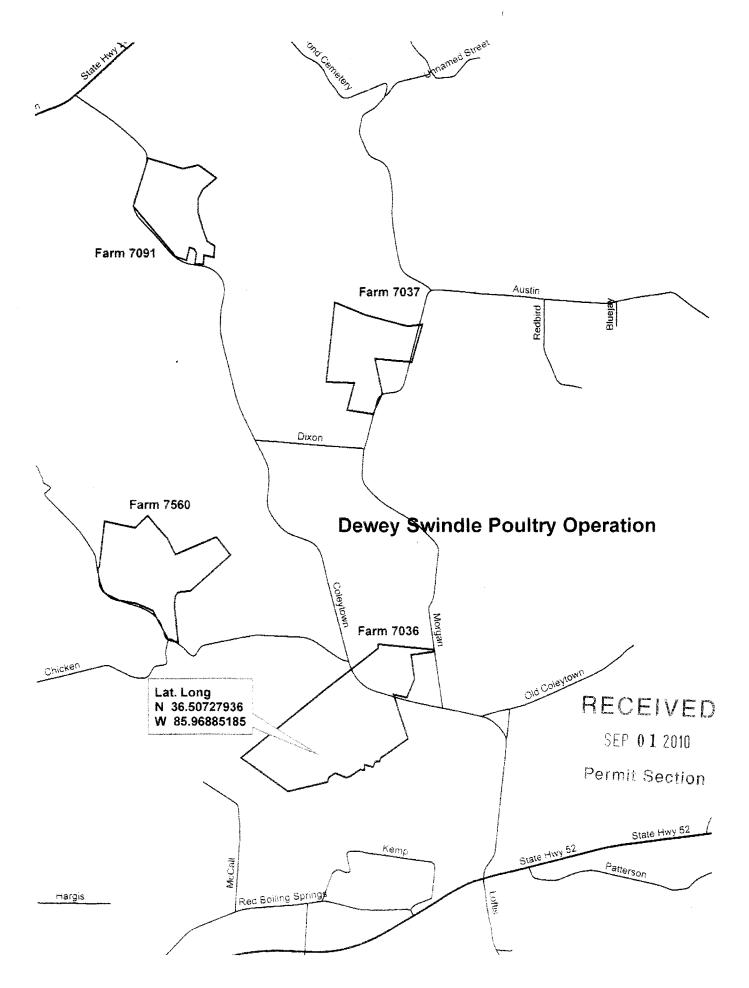
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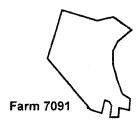
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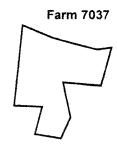
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Farm 7560

Dewey Swindle Poult

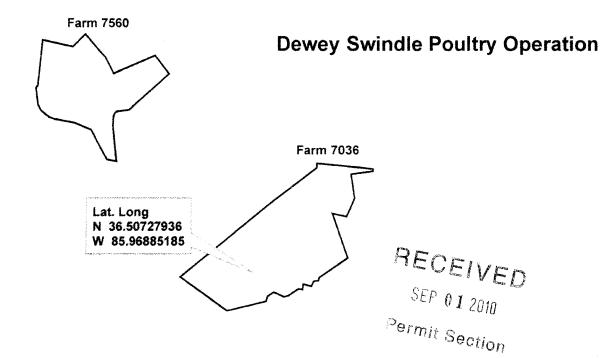


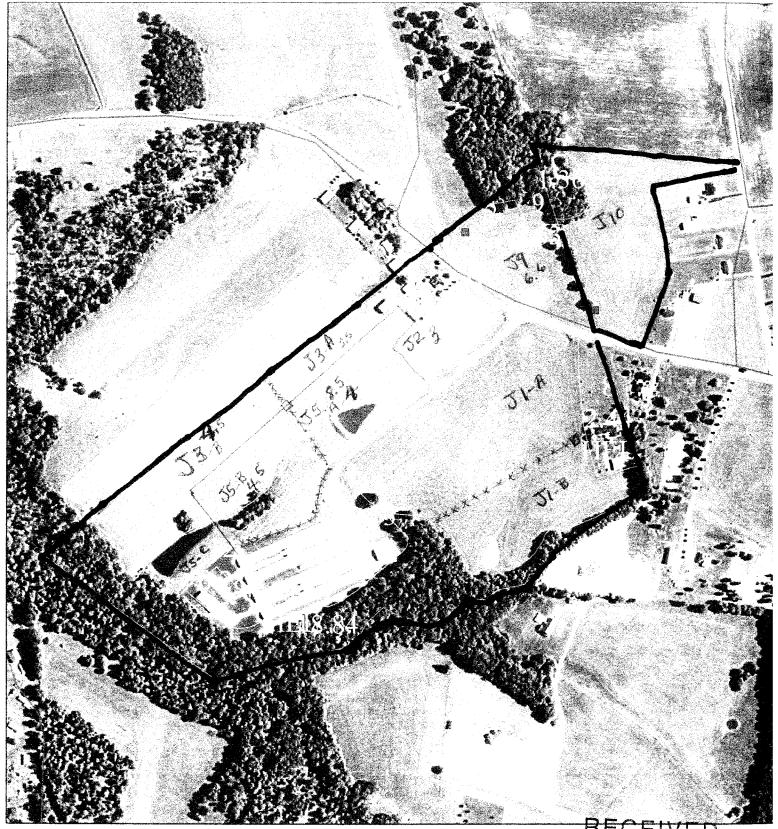




Galen

Topo Map Name





Title String

Macon County, TN

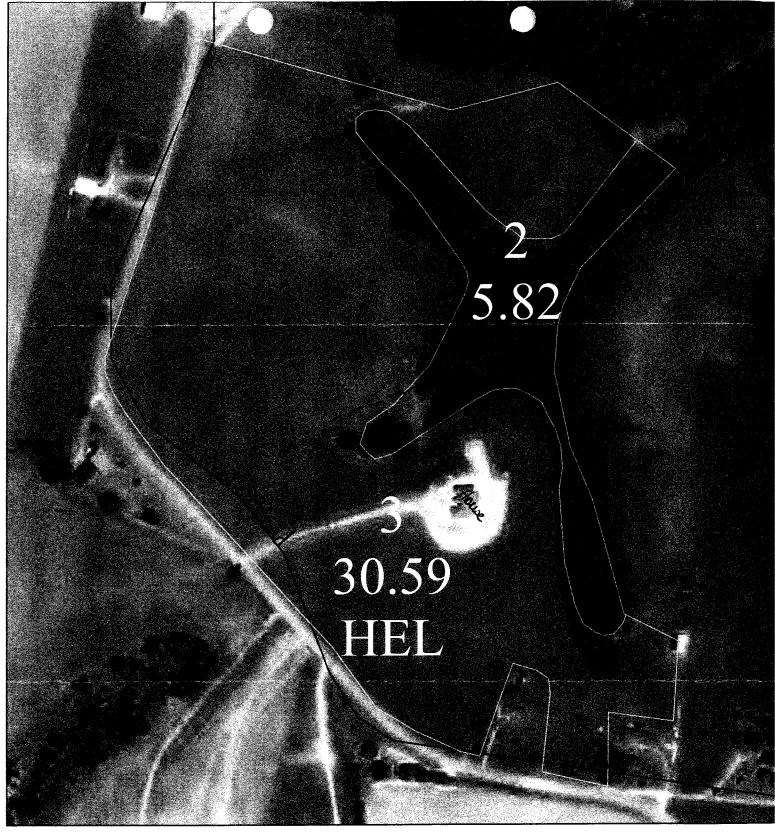
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United States Department of Agriculture Farm Service Agency

Grid:

Macon County

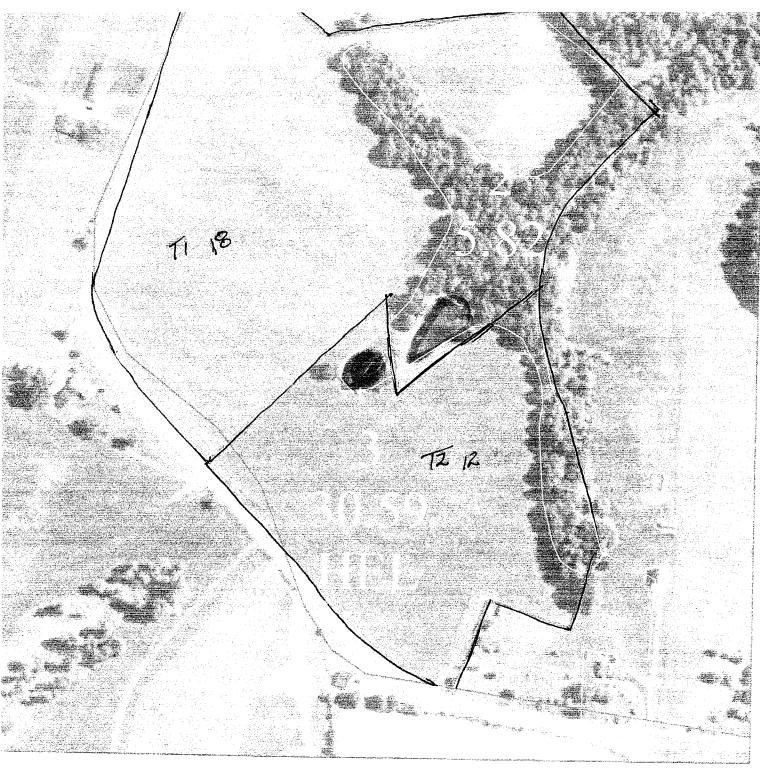
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FSN 7091

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United States Department of Agriculture Farm Service Agency

Title String Macon County, TV

Samples

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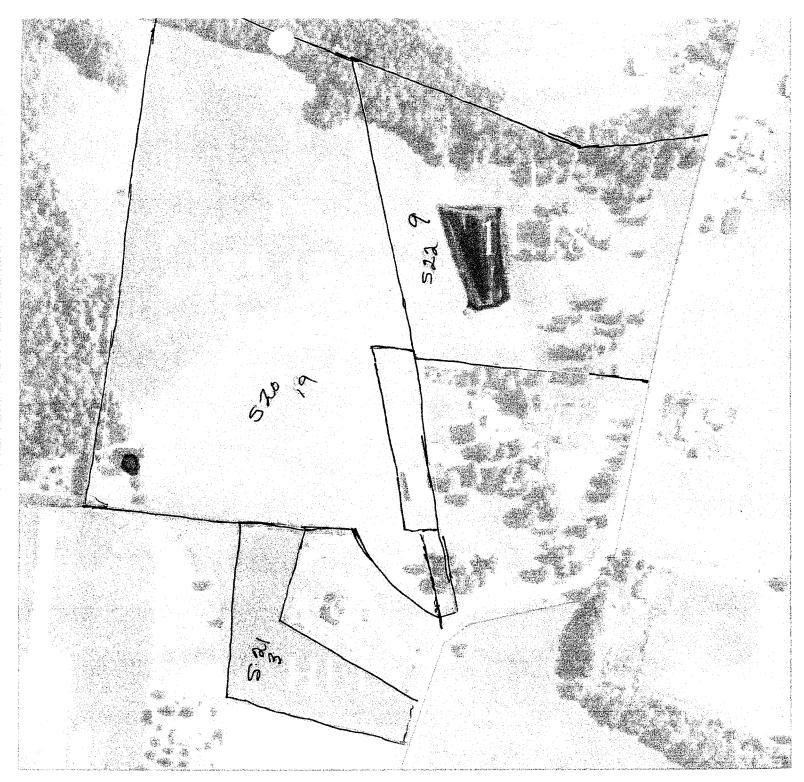
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United States Department of Agriculture Farm Service Agency

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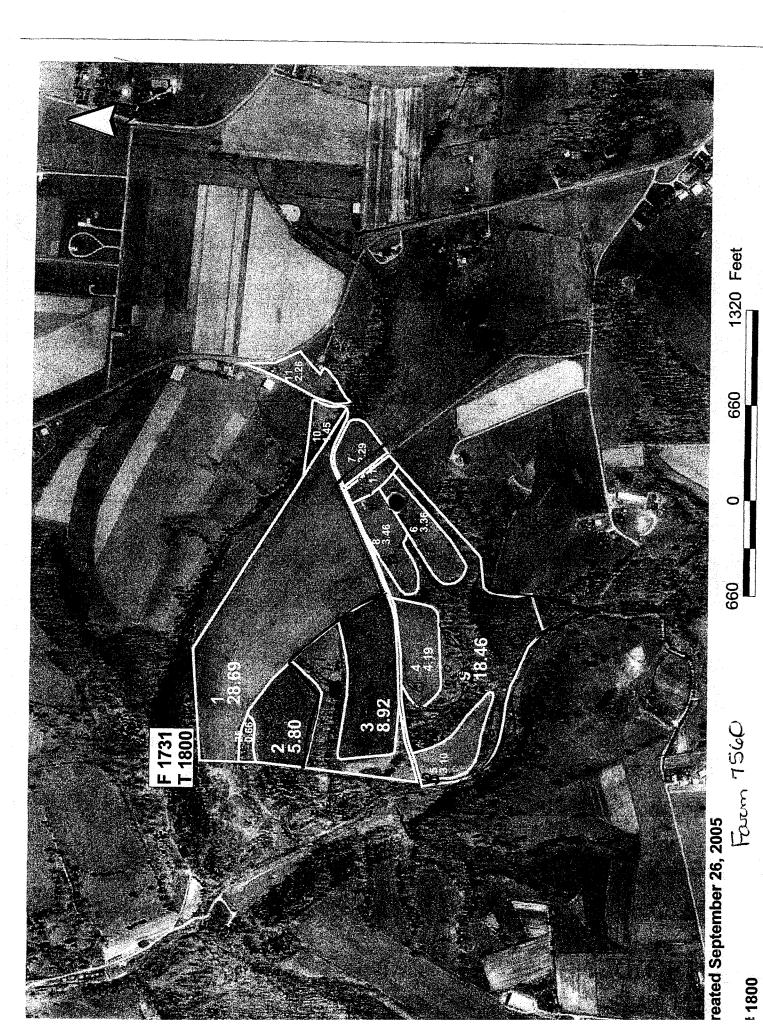
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B. Samples

- Pond

propland = 61.6 acresiarmland = 91.1 acres